

**To:** Ex. 6 - Personal Privacy  
**From:** Garland, Jay  
**Sent:** Fri 1/19/2018 1:14:27 AM  
**Subject:** Fwd: Temp RH Data 010818

FYI

Sent from my iPhone

Begin forwarded message:

**From:** "Hall, John" <Hall.John@epa.gov>  
**Date:** January 18, 2018 at 5:21:17 PM EST  
**To:** "Garland, Jay" <Garland.Jay@epa.gov>  
**Subject:** FW: Temp RH Data 010818

Jay,

The RH as measured by a sling psychrometer was higher than the Dickinson sensor (see below) is reporting. Ex. 4 - CBI Maybe we need a weather scientist to give us a tutorial on humidity. I am not sure I understand Absolute versus Relative humidity. For example the "humidity" reported today for outside Cincinnati is approx. 50% where the air is approx. 32 degrees F.

John

**From:** Meiners, Greg Ex. 4 - CBI  
**Sent:** Thursday, January 18, 2018 5:00 PM  
**To:** Hall, John <Hall.John@epa.gov>  
**Cc:** Witt, Sue <Ex. 4 - CBI>  
**Subject:** RE: Temp RH Data 010818

Hi John,

I checked the Dickinson logger with a sling psychrometer and here are the results. The %RH is a little low as you suspected. I can repeat this next week when the humidity goes up with moderating

temperatures...if we are working?

**Ex. 4 - CBI**

**APTIM**

Greg Meiners

**Ex. 4 - CBI**

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**From:** Hall, John [[Hall.John@epa.gov](mailto:Hall.John@epa.gov)]  
**Sent:** Wednesday, January 17, 2018 10:57 AM  
**To:** Meiners, Greg  
**Subject:** RE: Temp RH Data 010818

That will be cool. I would love to know how to do it the old fashioned way.

**From:** Meiners, Greg  
**Sent:** Wednesday, January 17, 2018 10:42 AM

**Ex. 4 - CBI**

**To:** Hall, John <Hall.John@epa.gov>  
**Subject:** Re: Temp RH Data 010818

John,

We have a sling psychrometer somewhere. I'll try to find it tomorrow afternoon when I'm at work and check the Dickson logger reading.

Greg

Sent from my iPhone

On Jan 17, 2018, at 10:26 AM, Hall, John <Hall.John@epa.gov> wrote:

Greg,

Do we have anyway to verify these R.H. % numbers. Do we have a wet bulb and dry bulb thermometer? Less than [Ex. 4 - CBI] RH sounds right for outside right now but I don't understand how the [Ex. 4 - CBI] but maybe I just don't understand how RH works. I guess if the air is warmer and can hold more moisture but there isn't anymore moisture added, it is lower RH inside than outside?

John

**From:** Meiners, Greg [Ex. 4 - CBI]  
**Sent:** Monday, January 08, 2018 3:33 PM  
**To:** Oren Shtivy <orens@water-gen.com>; Avi Peretz <avi@water-gen.com>  
**Cc:** Hall, John <Hall.John@epa.gov>; Jahne, Michael <Jahne.Michael@epa.gov>; Kling, Timothy [Ex. 4 - CBI]; Brannon, John [Ex. 4 - CBI]; Witt, Sue <[Ex. 4 - CBI]>  
**Subject:** FW: Temp RH Data 010818

Hi Oren & Avi:

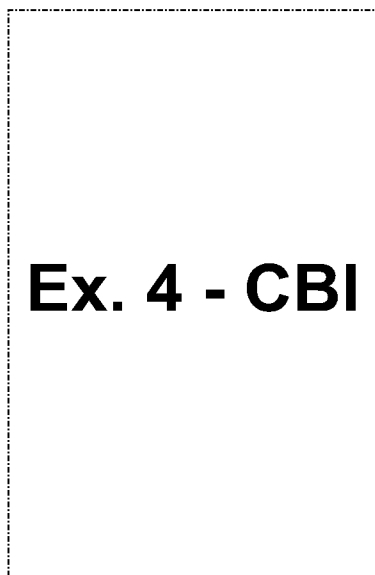
Attached are the temperature and humidity data from the Dickson logger. I left one file as a DicksonWare .log file that the DicksonWare software should recognize. Please let me know if

you can open this file with the DicksonWare and have it reproduce the graphs.

The second file was a text file that I converted to an Excel file. Currently, the temperature and humidity in Cincinnati have been very low with low relative humidity. Today, the temperature has moderated a bit all the way up to **Ex. 4 - CBI**. As a result the RH% is increasing slightly. Please let me know if you have any questions.

**APTIM**

Greg Meiners



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**From:** Meiners, Greg  
**Sent:** Monday, January 08, 2018 3:15 PM  
**To:** Meiners, Greg  
**Cc:** Witt, Sue  
**Subject:** Temp RH Data 010818

**APTIM**

Greg Meiners

## **Ex. 4 - CBI**